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first carefully thought out, and then all the methods being thoroughly and impartially applied to one and the same district. Experiment of this kind should of course be made by various observers of different trainings and preferences, and in different localities. Precisely this sort of experimental criticism was attempted during the Italian excursion of 1908, but under conditions, as already pointed out, that predisposed the jurors to a verdict in favor of a particular method. It would be a good thing for geographical progress if a larger experiment of the same kind could be made. I trust that our association may some day actively engage in such an enterprise.

W. M. DAVIS

CAMBRIDGE, MASS.

*THE GRADUATE SCHOOL OF PRINCETON
UNIVERSITY*

MR. W. C. PROCTER has renewed his gift of \$500,000 for the Graduate College of Princeton University on the same conditions on which it was originally made, except that in view of the bequest of Mr. Wyman for the graduate school, which it is thought will amount to \$3,000,000, the \$500,000 to be collected to secure Mr. Procter's gift is to be used for the endowment of the preceptorial system in the college. After the meeting of the trustees on June 9, President Wilson gave out the following statement:

By the will of the late Isaac C. Wyman, of the class of 1848, a great bequest has been left to the university in terms which must be acceptable to every friend of Princeton and of the higher learning. Its amount is expected to be sufficient to enable us to form a great graduate faculty and equip graduate teaching upon as liberal a scale as we should desire.

William Cooper Procter, of the class of 1883, has, with admirable generosity, offered \$500,000 to the university for the equipment and endowment of the Graduate College upon terms which will, I feel confident, commend themselves to every member of the board.

Mrs. Russell Sage has completed our great

obligation to her by offering to extend the beautiful building she recently presented to the university and to add to it the great tower which is likely to be the chief architectural ornament of the university.

Mr. Procter makes it a condition of his gift that the buildings of the Graduate College shall be placed upon the golf links. Strongly as my own judgment would dictate a different choice of site, the expectations of immediate large development created by Mr. Wyman's bequest so alter the relative importance of the question of the position of the graduate college of residence that I feel it to be my duty no longer to oppose in that matter what I now know to be the judgment of a majority of colleagues in the board.

The recent discussion of the many questions connected with the development and administration of the graduate school has fortunately called forth from all parties expressions of opinion which show practical unanimity of judgment and purpose upon the questions upon which agreement was most important; inasmuch as it has developed common consent that the life of the Graduate College should be organized upon the simplest and most natural lines possible, and that the college should be of common use and benefit to all members of the graduate school.

I, therefore, very heartily congratulate the board upon a combination of circumstances which gives so bright a promise of a successful and harmonious development of the university along lines which may command our common enthusiasm.

SCIENTIFIC NOTES AND NEWS

SIR DAVID GILL, K.C.B., F.R.S., has been appointed a knight of the Prussian Order of Merit.

DR. WILHELM ROUX, professor of anatomy at Halle and eminent for his contributions to embryology, celebrated his sixtieth birthday on June 9, when a *Festschrift* in two volumes was presented to him.

DR. E. A. SCHAEFER, professor of physiology in the University of Edinburgh, has received an honorary doctorate of medicine at the University of Berne, after lecturing at the University on "The Functions of the Pituitary Body."

THE council of the Royal Society of Arts has elected Mr. Theodore Roosevelt a life member of the society under the terms of the

by-law which empowers it to elect annually not more than five persons who have distinguished themselves by the promotion of the society's objects.

NEW YORK UNIVERSITY has given its doctorate of laws to Dr. Henry Mitchell MacCracken, who retires from the chancellorship of the University.

PROFESSOR WILLIAM JAMES BEAL, of the Agricultural College of Michigan, has announced his intention of resigning the chair of botany at the end of the current school year, when he will complete forty years of continuous service.

DR. LOUIS H. DURING has resigned from the chair of dermatology in the University of Pennsylvania, after a service of forty years.

MR. H. C. BEYER, a student in the Graduate School of Harvard University, is now an ethnologist in the Bureau of Science at Manila.

DR. WOLFERSTAN THOMAS, assistant lecturer in the Liverpool School of Tropical Medicine, has been appointed director of the new laboratories supported by business firms at Manaos, in the state of Amazonas.

DR. JOHN M. MACFARLANE, professor of botany in the University of Pennsylvania and director of the botanic garden, has been granted a leave of absence for a year, which he proposes to utilize in study at several of the European botanical centers.

PROFESSOR HATSUNE NAKANO, who holds the chair of electrical engineering in the College of Engineering of the University of Tokyo, is at present visiting this country. He received degrees from Cornell University in 1888 and 1889.

PROFESSOR FREDERICK KEEBLE, dean of the faculty of science of University College, Reading; Dr. R. V. O. Hart-Synnot, director of the department of agriculture, with three other representatives of the college, have been visiting Canada and the United States, to examine our universities and colleges, and especially the agricultural departments.

PROFESSOR GEORGE R. McDERMOTT, who holds the chair of naval engineering at Cornell University, having leave of absence for

next year, will superintend the erection and equipment of ship yards and dry docks at Rio de Janeiro. He will sail in July for a tour of inspection of shipbuilding works in Europe, and after a similar examination of American ship yards, he will go to Brazil in October.

ON June 3 Professor A. Lawrence Rotch gave an illustrated lecture, "The Aerial Ocean and its Navigation," at the annual Convention of Pennsylvania Engineers in Harrisburg.

PROFESSOR THEOBALD SMITH, of Harvard University, delivered a lecture on "The Relation between Human and Bovine Tuberculosis," at the University of Illinois, on May 19.

THE following minute on the death of Dr. George Frederick Barker was adopted by the board of trustees of the University of Pennsylvania on June 7:

That the board has heard with deep regret of the death of George Frederick Barker, for twenty-eight active and for ten years emeritus professor of physics in the university. His lofty character won for him the respect and affectionate regard alike of officer, teacher and student, while the distinguished honors accorded him and his contributions to science added luster to the name of the university which he served so long and so faithfully.

MR. JOSEPH S. HARRIS, an officer of the U. S. Coast and Geodetic Survey from 1854 to 1864 and assistant astronomer of the northwestern boundary survey, later prominent as president of the Philadelphia and Reading Railway and other companies, a trustee of the University of Pennsylvania, has died at the age of seventy-four years.

MR. MICHAEL CARTEIGHE, for many years president of the Pharmaceutical Society of Great Britain, died on May 28, at the age of sixty-eight years.

DR. EMIL ZUCKERKANDL, professor of anatomy at the University of Vienna, died on May 28 at the age of sixty-one years.

THE death is announced of Dr. Paulin Troillard, professor of anatomy in the Algiers College of Medicine.

THE second session of the seventeenth International Congress of Americanists will be

held at Mexico City from September 8 to 14. The sessions will be held in the lecture hall of the National Museum in Mexico City. An organizing committee has been formed, the president of which is Señor Justo Sierra, secretary of public instruction and fine arts for the government of Mexico. The congress will deal with questions relating to the ethnology, archeology and history of the new world.

THE Rockefeller Institute for Medical Research, which has been supplying the anti-meningitis serum gratis for several years, has announced that it may discontinue, at any time after the expiration of the next six months, its preparation and distribution on a large scale. The consensus of medical opinion, based on the employment of the anti-meningitis serum in widely separated epidemics of meningitis, is to the effect that it is of undoubtedly value in reducing the mortality and preventing the severe consequences of the disease. The serum is without effect in any other form of meningitis than that caused by *Diplococcus intracellularis* (Weichselbaum) and its favorable action is most pronounced when it is applied early in the course of the disease. Hence it is desirable that state and municipal laboratories, engaged in the preparation of diphtheria antitoxin and allied products, should undertake the preparation of the serum and provide means for controlling the bacteriological diagnosis of meningitis, as they now do diphtheria and some other diseases. Unless the bacteriological diagnosis is controlled by competent authorities, the serum will, undoubtedly, be applied in some cases of meningitis due to causes which are not subject to its action, and not a few cases of epidemic meningitis will be deprived of the benefits of its use. The serum is administered by being injected into the spinal canal by means of lumbar puncture, which operation is also required to secure the fluid for the bacteriological diagnosis; and several separate injections of the serum are required in treating a given case. The effective employment of the serum is likely, therefore, to be restricted on account of the experience and skill required in its administration and the high cost of the com-

mercial product, unless the preparation, distribution and, when necessary, administration are undertaken by state and municipal authorities.

THE department of plant pathology of the New York State College of Agriculture announces the establishment of two more industrial fellowships. This makes four industrial fellowships which have already been established for the investigation of the diseases of plants. The two new fellowships are: The Herman Frasch fellowship, established by the Union Sulphur Company of New York City. This provides for the investigation of the use of dry sulphur as a fungicide both to the plants and in the soil. This fellowship carries an annual appropriation of \$3,000 a year for four years and provides for a senior and junior fellow. Mr. C. N. Jensen, formerly an assistant in the department of plant pathology, Cornell University, recently research fellow in the University of California, has been appointed to the position of senior fellow, and Mr. F. M. Blodgett, a senior in the department of plant pathology, Cornell University, has been appointed to the junior place. Two thousand dollars is to be used as salaries for the fellows and \$1,000 a year for carrying on the work. The John Davey fellowship, established by the Davey Tree Expert Company, of Kent, Ohio, provides for the investigation of heart rots of trees. It carries with it an annual appropriation of \$750 a year, of which \$500 is used as salary for the fellow and \$250 for carrying on the work. Mr. W. H. Rankin, who graduates from Wabash College this year, has been appointed to this fellowship.

THE following is a list of the men of science and others who will accompany Captain R. F. Scott upon his Antarctic expedition: Lieutenant E. R. G. R. Evans, R.N., second in command (western party); Dr. E. A. Wilson, chief of scientific staff, zoologist and artist (western party); Lieutenant V. L. A. Campbell, R.N., leader of the eastern party; Lieutenant H. L. L. Pennell, R.N., magnetic and meteorological work in Terra Nova; Lieutenant H. E. de P. Rennick, R.N. (western party); Lieutenant H. R. Bowers, Royal In-

dian Marine (Terra Nova); Engineer Lieutenant E. W. Riley, R.N., chief engineer (Terra Nova); Surgeon G. M. Levick, R.N., doctor, zoologist, etc. (eastern party); Surgeon E. L. Atkinson, R.N., doctor, bacteriologist, parasitologist; Mr. F. R. H. Drake, R.N., secretary (Terra Nova); Mr. C. H. Meares, charge of ponies and dogs (western party); Captain L. E. G. Oates, Inniskilling Dragoons, charge of ponies and dogs (western party); Dr. G. L. Simpson, physicist (western party); Mr. T. Griffith Taylor, geologist (? western party); Mr. E. W. Nelson, biologist (western party); Mr. D. G. Lillie, biologist (Terra Nova); Mr. A. Cherry Garrard, assistant zoologist (western party); Mr. H. G. Ponting, photographer (western party); Mr. B. C. Day, motor engineer (western party); Mr. W. G. Thomson, geologist (? western party); Mr. C. S. Wright, chemist (western party); Mr. T. Gran, assistant (western party).

UNIVERSITY AND EDUCATIONAL NEWS

THE Cleveland College of Physicians and Surgeons, which has been the medical department of Ohio Wesleyan University, will be consolidated with the medical department of Western Reserve University at the close of the present college year. The trustees of Western Reserve University have elected from the teaching staff of the medical department of Ohio Wesleyan University one member to the faculty and eighteen other members to the teaching staff. President Thwing has announced a gift by Mr. H. M. Hanna of \$250,000 as an additional endowment fund for the medical department. This gift is the first quarter of an additional endowment of \$1,000,000 which the university now purposed to secure.

MR. DAVID J. RANKEN, Jr., of St. Louis, founder of the David J. Ranken, Jr., School of Mechanical Trades, has deeded his fortune, estimated at more than \$3,000,000, to the board of trustees of the school, to be used for its maintenance and enlargement.

MRS. RUSSELL SAGE has given a further sum of \$148,000 to Princeton University for a

tower and other improvements in connection with the dormitory she has given to the university.

DARTMOUTH COLLEGE receives an administration building by the gift of \$50,000 from Mr. and Mrs. Lewis W. Parkhurst, of Winchester. It is a memorial to their son, Wilder Lewis Parkhurst, who died during his sophomore year at the college.

BY the will of Augustus L. Revere Harvard University receives \$20,000 to found a Revere family memorial fund.

THE recent commencement exercises at the University of Alabama were marked by the formal acceptance by the university authorities of two new buildings, Comer Hall and Smith Hall. The dedicatory address for Comer Hall, the engineering building, was delivered by Mr. F. H. Crockard, first vice-president and general manager of the Tennessee Coal, Iron and Railroad Company, and that for Smith Hall, the geological-biological building, by Dr. J. A. Holmes, of the United States Geological Survey. These two buildings were erected at an approximate cost of \$300,000. Smith Hall has been named in honor of Dr. Eugene A. Smith, who, as professor of geology and state geologist for many years, has rendered conspicuous service to the state. A native of Alabama, he was educated at the University of Alabama and at Heidelberg, receiving the doctor's degree at the latter in 1868. He has held his present position as professor of geology since 1871 and has been state geologist since 1873. Dr. Holmes, in his address dedicating Smith Hall, stated that, in having spent thirty-seven years continuously in the service of one state, Dr. Smith holds the record for length of service among living state geologists.

AT the Johns Hopkins University, Dr. H. S. Jennings, now professor of experimental zoology, has been appointed Henry Walters professor of zoology and director of the biological laboratory, in succession to the late Professor W. K. Brooks.

GABRIEL CAMPBELL, of Dartmouth College, will retire from the Stone professorship of